

ELECTRICAL ENERGY COMPLIANCE FORM

(for new buildings and additions)

based on ASHRAE/IESNA 90.1, 1989

This form, to be completed by a registered design professional, may be submitted in lieu of detailed calculations. However, a worksheet, not required to be submitted, is available to assist you in completing the calculations. Violations and omissions of the code requirements are the responsibility of the design professional. All questions and requested information on this form must be completed.

PROJECT INFORMATION

Project Name: _____

Street Address: _____

Plan Number: _____

GENERAL

Building type or space activity: _____

Are the floor plans within the scope of the ASHRAE Standard requirements? --- 2.1, 2.2 ☐ Yes ☐ No

If No, you are not required to complete this form.

DISTRIBUTION

Is the total connected load of the entire building greater than 250-kVA? ---5.4.1 ☐ Yes ☐ No

Is the total connected load for the individual tenant 100-kVA or more? ---5.4.1.2 ☐ Yes ☐ No

If yes to any of the two questions above, check all the boxes that apply below:

- ☐ Electrical power feeders are subdivided by usage. ---5.4.1.1
- ☐ Each tenant with a total connected load over 100-kVA is provided with a separate distribution feeder. ---5.4.1.2
- ☐ All required separate feeders have either permanent check meters or provisions for the attachment of portable meters. ---5.4.1.3 and 5.4.1.4

Method of check metering provision:

- ☐ Electrical equipment has/have enough space(s) to contain the check meter.
- ☐ Junction box(es) through which the feeder conductors pass without splicing is/are provided.

TRANSFORMERS

Is the sum of the building or single tenant space transformer (excluding the utility transformer) ratings greater than 300-kVA? ---5.4.2.2 ☐ Yes ☐ No

If Yes:

- ☐ Calculations for annual energy costs of the transformer losses have been made and will be provided to the owner. ---5.4.2.2 (See transformer loss worksheet)
- ☐ Total transformer capacity (excluding utility transformer) is: _____ kVA.

MOTORS

- ☐ All motors of 1-hp or more which are expected to operate more than 500 hours per year have a minimum acceptable nominal full-load motor efficiency not less than that shown in Table 5-1. ---5.4.3 and 5.4.3.1
- ☐ Motor horsepower ratings do not exceed 125% of the calculated maximum loads as applicable. ---5.4.3.4

COMPLETION

- ☐ The plans or specifications spell out the requirements for operation and maintenance of the building electrical distribution system. ---5.4.4

LIGHTING

- Compliance Approach:
- ☐ Prescriptive Method ---6.5
 - ☐ Systems Performance Method ---6.6
 - ☐ Cost Budget Method ---13.0 and 13.1

EXTERIOR LIGHTING

- ☐ Exterior lighting, not intended for 24-hour use, is controlled by a timer, photocell or combination thereof a timer and photocell. ---6.4.2.8
- ☐ The Exterior Lighting Power (ELP) is less than or equals to the Exterior Lighting Power Allowance (ELPA). ---6.4.1

INTERIOR LIGHTING

- ☐ Fluorescent lamp ballasts meet or exceed the ballast efficacy factor (BEF) in Table 6-4. ---6.4.4.1
- ☐ Fluorescent lamps use multiple lamp ballasts with tandem wiring as required.---6.4.4.3
- ☐ Fluorescent lamp ballasts have a 90% or greater power factor. ---6.4.4.4
- ☐ The installed Interior Lighting Power (ILP) is less than or equals to the Interior Lighting Power Allowance (ILPA). ---6.5 or 6.6

LIGHTING FIXTURES IN OPEN-SIDED PARKING STRUCTURES

- ☐ All lighting fixtures located within portions of open-sided parking structures that are above ground must be full cut-off lighting fixtures per Article 20, Part 3 of the Zoning Ordinance.

SENSING CONTROLS

- Types of sensing controls used:
- ☐ Daylight Sensing Controls
 - ☐ Occupancy Sensors
 - ☐ Programmable Timing Controls
 - ☐ Lumen Maintenance Controls

LIGHTING CONTROLS

- ☐ The installed lighting control points are equal or exceed the required lighting control points in each and every room. ---6.4.2.2
- ☐ A Shut-off control is in each space enclosed by ceiling high partitions. ---6.4.2.1
- ☐ Controls are readily accessible to personnel occupying the space. ---6.4.2.6
- ☐ Hotel/motel quest rooms have master switches at the main door to turn off lights and switched receptacles. ---6.4.2.7

CERTIFICATION

I further hereby certify that the project referenced herein complies with all the applicable requirements of ASHRAE/IESNA Standard 90.1, 1989 and Article 20, Part 3 of the Zoning Ordinance.

Name: _____

Occupation: _____ Date: _____

